PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING EMERGANCY TRAFFIC SIGNAL TO A FULL TRAFFIC SIGNAL.AT MD 170 AND MATHISON WAY IN ANNE ARUNDEL COUNTY.MD 170 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA (4) FOUR-PHASE FULLY-TRAFFIC-ACTUATED MODE WITH SOUTHBOUND AND NORTHBOUND MD 170 APPROACHES OPERATING CONCURRENTLY. THE SIDE STREET APPROACH WILL BE STAND ALONE. AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE WILL BE PROVIDED FOR SOUTHBOUND MD 170. EMERGENCY PRE EMPTION WILL BE PROVIDED FOR MATHISON WAY.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

MR. PAUL D. ARMSTRONG DISTRICT ENGINEER PHONE: (410) 841-1001

MR. LARRY ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1003

MR. JOHN MAYS UTILITY ENGINEER PHONE: (410) 841-1005

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

PHASE CHART

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NUMBER QUANTITY DESCRIPTION 9002 FOUR CHANNEL LOOP DETECTOR AMPLIFIERS 3 EACH (DELAY OUTPUT) 9089 SHEET ALUMINUM SIGNS 68 S.F. - I EACH RIO-12 SIGN (36 IN. x 42 IN.) -"LANE USE CONTROL - LEFT TURN YIELD ON GREEN BALL" MAST ARM MOUNT - 2 EACH W3-3 SIGN (48 IN. × 48 IN.) "NEW PANEL" WITH FLAGS" (30 IN. × 30 IN.) -"WARNING - SIGNAL AHEAD" & "NEW WITH FLAGS" GROUND MOUNT - I EACH W3-3 SIGN (36 IN. x 36 IN.) "NEW PANEL" WITH FLAGS" (24 IN. x 24 IN.) -"WARNING - SIGNAL AHEAD" & "NEW WITH FLAGS" GROUND MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. SECTION	CATAGORY CODE NO.	QUANTITY	DESCRIPTION	
101	120500 500000	L.S. 40 L.F.	MAINTENANCE OF TRAFFIC FURNISH INSTALL 24" WHITE HEAT APPLIED PERMANMENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	
	585450	40 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH	
801	801106	115 L.F.	FURNISH AND INSTALL 4" X 6" WOOD SUPPORTS	
805	805011	100 L.F.	FURNISH AND INSTALL I INCH ELECTRICAL CONDUIT GALVANIZED SLEEVE	
805	800000	900 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCH	
805	800000	60 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	
806	800000	25 EACH	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION MAST ARM MOUNT	
806	800000	3 EACH	FURNISH AND INSTALL 8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION MAST ARM MOUNT	
810	800000	2 EACH	FURNISH AND INSTALL MICROLOOP PROBE SET WITH 500 FOOT LEAD-IN	
810	800000	4 EACH	FURNISH AND INSTALL MICROLOOP PROBE SET WITH 1000 FOOT LEAD-IN	
810	862101	2265 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)	
810	861104	550 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)	
811	811001	6 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE	
813	813014	57.5 S.F.	INSTALL GROUND MOUNTED SIGN	
813	800000	10.5 S.F.	INSTALL OVERHEAD SIGN	
815	862102	1395 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)	
	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT	
***************************************	800000	450 L.F.	PULL BACK EXISTING INTERCONNECT CABLE AND REROUTE	

WIRING DIAGRAM

WIRING KEY

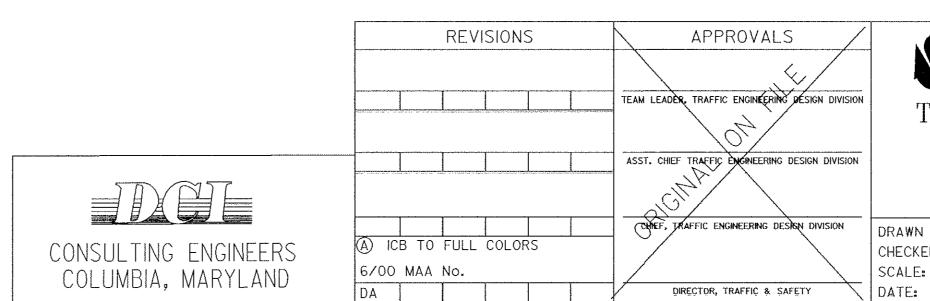
c,D,E
} 2-CONDUCTOR ELECTRICAL CABLE
(ALUMINUM SHIELDED)

LW - LOOP WIRE (NO.14 A.W.G.)

ES - EXISTING SERVICE (UNDERGROUND)

ML - MICRO LOOP SET

A,B,F,G,H,I } MICRO LOOP SET



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET

MD 170 @ MATHISON WAY

BY:	R. COCCHINI D. PETERS	F.A.P. NO. S.H.A. NO.	N/A N/A	TS NO. TS-3557A	SHEET NO
LO DI.	NONE	COUNTY:	ANNE ARUNDEL	T.I.M.S. NO.	SHEET NO
	6/1/98	LOG MILE:	02017006.15	E000	2 OF 2